

Industrial Facilities (Non-Military)

San-men Hsia Hydro Power Plant (San-men Gorge)

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Top Secret

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TCS 18690/69
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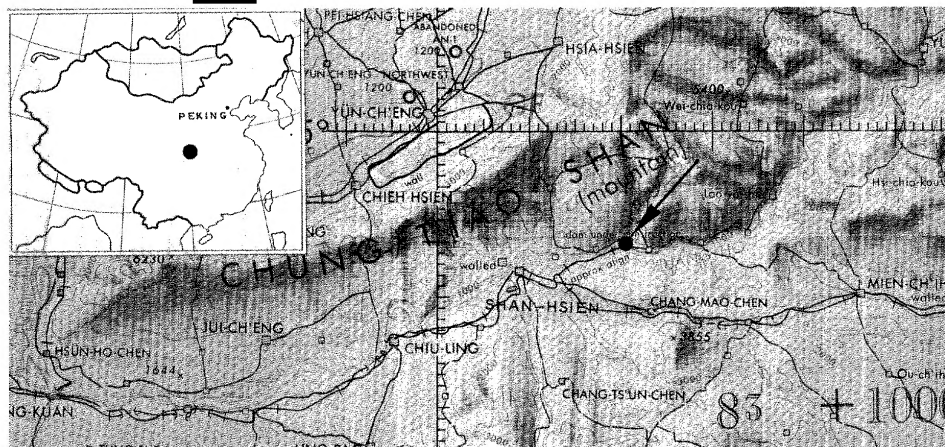
TOP SECRET RUFF
CENTRAL INTELLIGENCE AGENCY
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INSTALLATION OR ACTIVITY NAME					COUNTRY
San-men Hsia Hydro Power Plant (San-men Gorge) 25X1A					CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	WAC-PIC NO.
49SEJ312545	34-49-45N 111-20-30E				0385-25A
MAP REFERENCE					
15th RTS. USATC Series 200, Sheet 0385-7AL, 1st edition, Aug 60, Scale 1:200,000 (SECRET)					
LATEST IMAGERY USED			NEGATION DATE (If required)		
			Not Required		

INTRODUCTION

San-men Hsia Hydro Power Plant (San-men Gorge) is located approximately 22 nautical miles (nm) southeast of Yun-cheng and 11 nm east-northeast of Shan-hsien, China, on the Huang Ho (Yellow River). The plant was reportedly built as part of a project begun in [REDACTED] to provide flood control, irrigation, and electric power.



BASIC DESCRIPTION

The San-men Hsia Hydro Power Plant is a consolidated-type plant with a concrete gravity dam. The dam extended across San-men Gorge when first seen on photography in [REDACTED] and construction on the dam continued through [REDACTED]. The powerhouse was in the late stages of construction in [REDACTED] and appeared complete by [REDACTED]. The powerhouse has eight sections and was apparently designed to incorporate eight turbogenerators. One transformer was observed on [REDACTED] indicating that one turbogenerator has probably been installed.

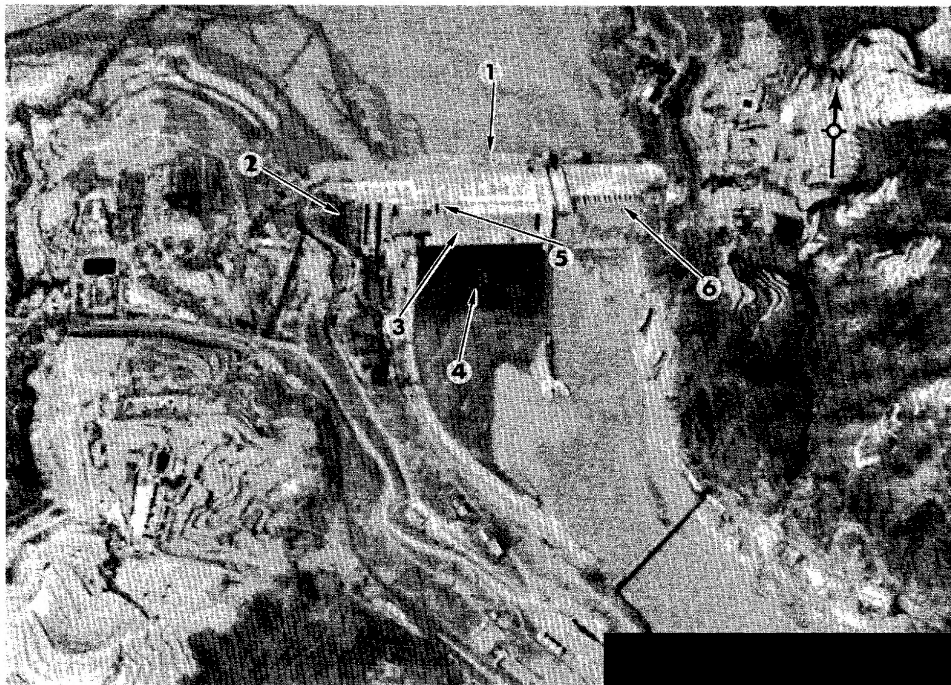
The water level of the reservoir has never been observed at or near capacity. The reservoir was partially filled in [REDACTED]. This may have been the result of a high water level of the river and a limited flow through the dam.

No turbulence has been observed in the tailrace of the single turbogenerator which has probably been installed. Turbulence was observed at the spillway on all referenced imagery and at the four eastern powerhouse outlets in [REDACTED]. There have been no significant changes to the powerhouse or the dam since [REDACTED]. The only activity observed at the dam has been the movement of the gantry cranes for the gate control at the spillway or powerhouse.

The plant is both road and rail served. No security measures have been observed, possibly due to the small scale of the referenced imagery.

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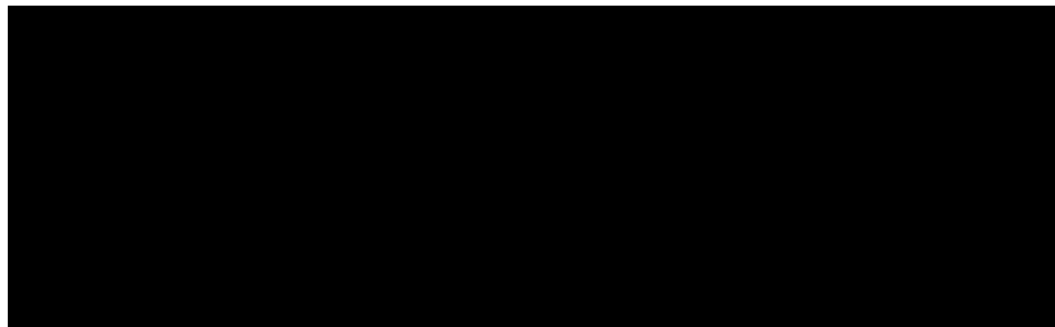
25X1D

Key to Annotations

<u>Item No.</u>	<u>Description</u>
1	Concrete Gravity Dam
2	Switching Yard
3	Powerhouse
4	Tailrace
5	Two Transformer Covers (one transformer)
6	Spillway

25X1D

REFERENCES



Maps

15th RTS. US Air Target Chart, Series 200, Sheet 0385-7AL, 1st edition, August 1960, Scale 1:200,000 (SECRET)

ACIC. USAF Operational Navigation Chart, Sheet G-9, 2nd edition, January 1963, Scale 1:1,000,000 (UNCLASSIFIED)

Documents

CIA. IAR 87002, Failure of San-men Gorge Reservoir Project, China, December 1967, TCS 19889/67 (TOP SECRET RUFF)

CIA. PIR 65145, Chinese Power Plants, Honan Province, June 1966, TCS 3320/66 (TOP SECRET RUFF)

Requirement

EXSUBCOM - BR-N/002-69

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